

## Product datasheet for **SC306604**

### Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM\_153443) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Killer cell immunoglobulin like receptor 3DL3 (KIR3DL3) (NM_153443) Human Untagged Clone |
| Tag:                      | Tag Free   |
| Symbol:                   | KIR3DL3  |
| Synonyms:                 | CD158Z; KIR3DL7; KIR44; KIRC1  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC306604 representing NM_153443.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s)  |

```
GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGTCTGGAGGGGCCCTGGCCACATGTG
GGTGGTCAGGACAAGCCCTTCTCTCTGCTGGCCGGCCACTGTGGTGTCTGAAGGACAACATGTGACT
CTTCAGTGTGCTCTCGTCTTGGGTTAATGAATTCAGTCTGTCCAAAGAAGACGGGATGCCTGTCCCT
GAGCTCTACAACAGAATATCCGGAACAGCTTTCTCATGGGCCCTGTGACCCAGCACATGCAGGGACC
TACAGATGTTGCAGTTCACACCCACACTCCCCACTGGGTGGTCGGCACCCAGCAACCCTGTGGTGATC
ATGGTCACAGGAGTCCACAGAAAACCTTCCCTCTGGCCACCCAGGTCCCTGGTGAAATCAGGAGAG
ACGGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGGCGCTTCTTCTGCACAGAGAGGGGATCACT
GAGGACCCCTTGCCTCGTGGACAGCTCCACGATGCGGGTTCACAGGTCAACTATTCCATGGGTCCC
ATGACACCTGCCCTTGCAGGGACCTACAGATGCTTTGGTTCTGTCACTCACTTACCCTATGAGTTGTCG
GCTCCAGTGACCCTCTGGACATCGTGGTCGTAGGTCTATATGGGAAACCTTCTCTCTCAGCCAGCCG
GGCCCCACGGTTCAGGCAGGAGAGAATGTGACCTTGTCTGCAGCTCCCGGAGCTTGTGTTGACATTTAC
CATCTATCCAGGGAGGCCGAGGCGGTGAACCTTAGGCTCACTGCAGTGTGAGGGTCAATGGAACATTC
CAGGCCAACTTCCCTCTGGGCCCTGTGACCCACGAGGGAACACAGATGCTTCGGCTCTTCCGTGCC
CTGCCCATGCGTGGTCAGACCCGAGTGACCCACTGCCCGTTTCTGTACAGGTAACCCAGAAAACCTG
CACGTTCTGATTGGGACCTCAGTGGTCATCATCCCTTTGCTATCCTCCTCTTCTTTCTCCTTATCGC
TGGTGTGCCAACAAAAGAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGG
GAGGACTCTGATGAACAAGACCCCTCAGGAGGTGACATACGCACAGTTGAATCACTGCGTTTTACACAG
AGAAAAATCACTCGCCCTTCTCAGAGGCCAAGACACCCCAACAGATACCAGCGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```



|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>Plasmid Map:</b>           | □   |
| <b>ACCN:</b>                  | NM_153443   |
| <b>Insert Size:</b>           | 1233 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| <b>Components:</b>            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_153443.4</a></u>  |
| <b>RefSeq Size:</b>           | 1723 bp   |
| <b>RefSeq ORF:</b>            | 1233 bp   |
| <b>Locus ID:</b>              | 115653  |
| <b>Cytogenetics:</b>          | 19q13.42  |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Antigen processing and presentation   |
| <b>MW:</b>                    | 44.9 kDa  |

**Gene Summary:**

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. This gene is one of the "framework" loci that is present on all haplotypes. [provided by RefSeq, Jul 2008]